INTERNATIONAL SEARCH REPORT

Internation — plication No PCT/GB U3/05377

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F04D27/02 F04D19/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 FO4D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUM	NTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 213 482 A (SEIKO INSTR INC) 12 June 2002 (2002-06-12) column 3, line 28 -column 4, line 40 column 5, line 30 - line 43; figures 1-3	1,3,4,6, 8,9
Υ	EP 0 900 940 A (EBARA CORP) 10 March 1999 (1999-03-10) column 3, line 27 -column 5, line 17; figures 1-2B	1-3,6-10
Υ	EP 1 234 982 A (VARIAN SPA) 28 August 2002 (2002-08-28) column 2, line 56 -column 3, line 51; figures 1-3 -/	1-3,6-10
· ·		

X Further documents are listed in the continuation of box C.	Patent family members are tisted in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 *T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of malling of the international search report
24 March 2004	31/03/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Teerling, J

INTERNATIONAL SEARCH REPORT

Internation—pplication No
PCT/GB U3/05377

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/GB U	PCT/Gb U3/05377		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
Y	EP 0 340 685 A (NIPPON FERROFLUIDICS KK) 8 November 1989 (1989-11-08) column 2, line 11 -column 3, line 24:	1,3,4,6,			
(figure 1 EP 1 081 380 A (EBARA CORP) 7 March 2001 (2001-03-07) column 4, line 29 - line 57; figure 1	1,3,4,6,			
	US 3 616 680 A (SCHRADER WILHELM F) 2 November 1971 (1971-11-02) column 5, line 46 - line 51	1			
	EP 0 226 039 A (HITACHI LTD) 24 June 1987 (1987-06-24)	·			
			*		
			·		
-	· · · · · · · · · · · · · · · · · · ·				

INTERNATIONAL SEARCH REPORT

Info on patent family members

Internation — iplication No
PCT/GB=03/05377

				101/45	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1213482	Α	12-06-2002	JP EP US	2002168192 A 1213482 A1 2002098092 A1	14-06-2002 12-06-2002 25-07-2002
EP 0900940	A	10-03-1999	JP DE EP US	11082347 A 69820938 D1 0900940 A2 6088508 A	26-03-1999 12-02-2004 10-03-1999 11-07-2000
EP 1234982	Α	28-08-2002	EP DE	1234982 A1 60101368 D1	28-08-2002 15-01-2004
EP 0340685	A	08-11-1989	JP DE DE EP US	1277698 A 68914320 D1 68914320 T2 0340685 A2 5092740 A	08-11-1989 11-05-1994 21-07-1994 08-11-1989 03-03-1992
EP 1081380	Α .	07-03-2001	JP EP US WO TW	2000038999 A 1081380 A1 6474949 B1 9960272 A1 483988 B	08-02-2000 07-03-2001 05-11-2002 25-11-1999 21-04-2002
US 3616680	Α .	02-11-1971	BE CA CH DE FR GB JP NL	757352 A1 922584 A1 519137 A 2049117 A1 2066532 A5 1330685 A 51025158 B 7015084 A	16-03-1971 13-03-1973 15-02-1972 06-05-1971 06-08-1971 19-09-1973 29-07-1976 29-04-1971
EP 0226039	Α	24-06-1987	JP EP	62113887 A 0226039 A1	25-05-1987 24-06-1987